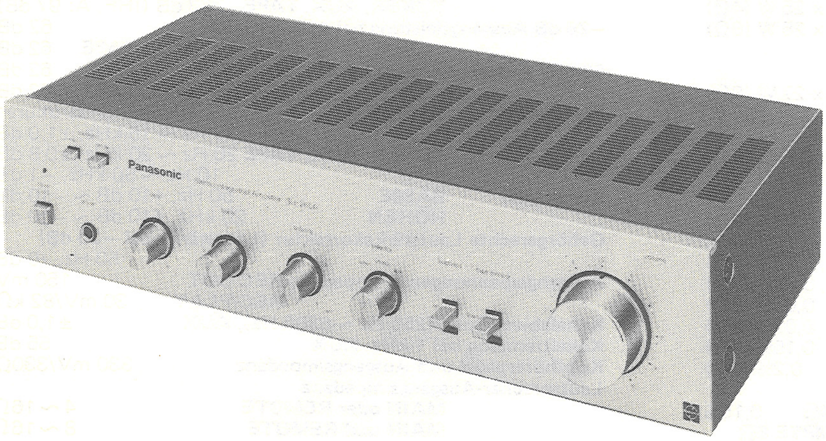
ORDER NO. SD7907-1589

Service Manual

Stereo Integrated Amplifier

SU-2600

(EG), (XE), (EB)



* The model SU-2600 (EG) is available in Scandinavia and European.
* The model SU-2600 (XE) is available in United Kingdom.
* The model SU-2600 (EB) is available in Belgium.

TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

AMPLIFIER SECTION

20 Hz ~ 20 kHz continuous power output	
both channels driven	2 x 25 W (8Ω)
40 Hz ~ 16 kHz continuous power output	
both channels driven	2 x 25 W (4Ω), 2 x 25 W (8Ω)
1 kHz continuous power output	
both channels driven	2 x 27 W (4Ω), 2 x 27 W (8Ω)
Power bandwidth	
both channels driven, −3 dB	5 Hz ~ 50 kHz (4Ω) 5 Hz ~ 60 kHz (8Ω)
Total harmonic distortion	
rated power at 20 Hz ~ 20 kHz	0.08% (8Ω)
rated power at 40 Hz ~ 16 kHz	0.15% (4Ω), 0.08% (8Ω)
rated power at 1 kHz	0.15% (4Ω), 0.08% (8Ω)
half power at 20 Hz ~ 20 kHz	0.03% (8Ω)
half power at 1 kHz	0.03% (8Ω)
−26 dB power at 1 kHz	0.15% (4Ω)
50mW power at 1 kHz	0.2% (4Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz = 4:1, 4Ω	0.15%
rated power at 60 Hz: 7 kHz = 4:1, SMPTE, 8Ω	0.08%
Residual hum & noise	0.6 mV
Damping factor	15 (4Ω), 30 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47 kΩ
TUNER, AUX	150 mV/27 kΩ
TAPE 1, PLAYBACK	180 mV/33 kΩ
PHONO maximum input voltage (1 kHz, RMS)	100 mV

S/N		
rated power at 4Ω	**PHONO**	74 dB (IHF, A: 80 dB)
	TUNER, AUX, TAPE	83 dB (IHF, A: 97 dB)
−26 dB power at 4Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
50 mW power at 4Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
Frequency response	**PHONO**	RIAA standard curve 30 Hz ~ 15 kHz, ±1.0 dB
	TUNER, AUX, TAPE	20 Hz ~ 20 kHz, ±0.8 dB 10 Hz ~ 50 kHz, −1 dB
Tone controls	**BASS**	50 Hz, +10 dB ~ −10 dB
	TREBLE	20 kHz, +10 dB ~ −10 dB
Loudness switch (volume at −30 dB)		50 Hz, +9 dB
Output voltage and impedance	**REC OUT**	150 mV
	REC/PLAY	30 mV/82 kΩ
Channel balance (250 Hz ~ 6300 Hz), AUX		±1.0 dB
Channel separation at 1 kHz, AUX		55 dB
Headphones output level and impedance		330 mV/330Ω
Load impedance	**MAIN or REMOTE**	4 ~ 16Ω
	MAIN + REMOTE	8 ~ 16Ω

GENERAL

Power consumption	300 W
Power supply (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (W x H x D)	430 x 97 x 240 mm (16-29/32"x3-13/16"x9-7/16")
Weight	5.0 kg (11.0 lb.)

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National **Panasonic**

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

TECHNISCHE DATEN

Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

[DIN 45 500]

VERSTÄRKERTEIL

Dauertonleistung bei 20 Hz ~ 20 kHz	
beide Kanäle zusammen ausgesteuert	2 x 25 W (8Ω)
Dauertonleistung bei 40 Hz ~ 16 kHz	
beide Kanäle zusammen ausgesteuert	2 x 25 W (4Ω)
	2 x 25 W (8Ω)
Dauertonleistung bei 1 kHz	
beide Kanäle zusammen ausgesteuert	
	2 x 27 W (4Ω), 2 x 27 W (8Ω)
Leistungsbandbreite	
beide Kanäle zusammen ausgesteuert, –3 dB	
	5 Hz ~ 50 kHz (4Ω)
	5 Hz ~ 60 kHz (8Ω)
Harmonische Verzerrungen	
Nennausgangsleistung bei 20 Hz ~ 20 kHz	0,08% (8Ω)
Nennausgangsleistung bei 40 Hz ~ 16 kHz	
	0,15% (4Ω), 0,08% (8Ω)
Nennausgangsleistung bei 1 kHz	0,15% (4Ω), 0,08% (8Ω)
Halber Ausgangsleistung bei 20 Hz ~ 20 kHz	0,03% (8Ω)
Halber Ausgangsleistung bei 1 kHz	0,03% (8Ω)
–26 dB Ausgangsleistung bei 1 kHz	0,15% (4Ω)
50 mW Ausgangsleistung bei 1 kHz	0,2% (4Ω)
Intermodulationsverzerrung	
Nennausgangsleistung bei 250 Hz: 8 kHz = 4:1, 4Ω	0,15%
Nennausgangsleistung bei 60 Hz: 7 kHz = 4:1, SMPTE 8Ω	
	0,08%
Brummen & Rauschen	0,6 mV
Dämpfungsfaktor	15 (4Ω), 30 (8Ω)
Eingangsempfindlichkeit & Impedanz	
PHONO	2,5 mV/47 kΩ
TUNER, AUX	150 mV/27 kΩ
TAPE 1, PLAYBACK	180 mV/33 kΩ
PHONO Maximale Eingangsspannungen (1 kHz RMS)	100 mV

Fremdspannungsabstand		
Nennausgangsleistung bei 4 Ω		
	PHONO	74 dB (IHF, A: 80 dB)
	TUNER, AUX, TAPE	83 dB (IHF, A: 97 dB)
–26 dB Ausgangsleistung bei 4 Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
50 mW Ausgangsleistung bei 4 Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
Frequenzgang	**PHONO**	RIAA Standardkurve
		30 Hz ~ 15 kHz, ±1,0 dB
	TUNER, AUX, TAPE	20 Hz ~ 20 kHz, ±0,8 dB
		10 Hz ~ 50 kHz, –1 dB
Klangregler	**BÄSSE**	50 Hz, +10 dB ~ –10 dB
	HÖHEN	20 kHz, +10 dB ~ –10 dB
Gehörgerechte Lautstärkekorrektur (Lautstärke bei –30 dB)		
		50 Hz, +9 dB
Ausgangsspannungen & Impedanz	**REC OUT**	150 mV
	REC/PLAY	30 mV/82 kΩ
Kanalabweichung (250 Hz ~ 6300 Hz), AUX		±1,0 dB
Kanaltrennung bei 1 kHz, AUX		55 dB
Kopfhörerpegel und Ausgangsimpedanz		330 mV/330Ω
Lautsprecher-Ausgangsimpedanz		
	MAIN oder REMOTE	4 ~ 16Ω
	MAIN und REMOTE	8 ~ 16Ω

ALLGEMEINE DATEN

Leistungsaufnahme	300 W
Netzspannung umschaltbar (50 Hz/60 Hz)	
	110V/120V/220V/240V
Abmessungen (B x H x T)	430 x 97 x 240 mm
Gewicht	5,0 kg

CARACTERISTIQUES TECHIQUES

Sujet à changement sans préaris.

[DIN 45 500]

PARTIE AMPLIFICATEUR

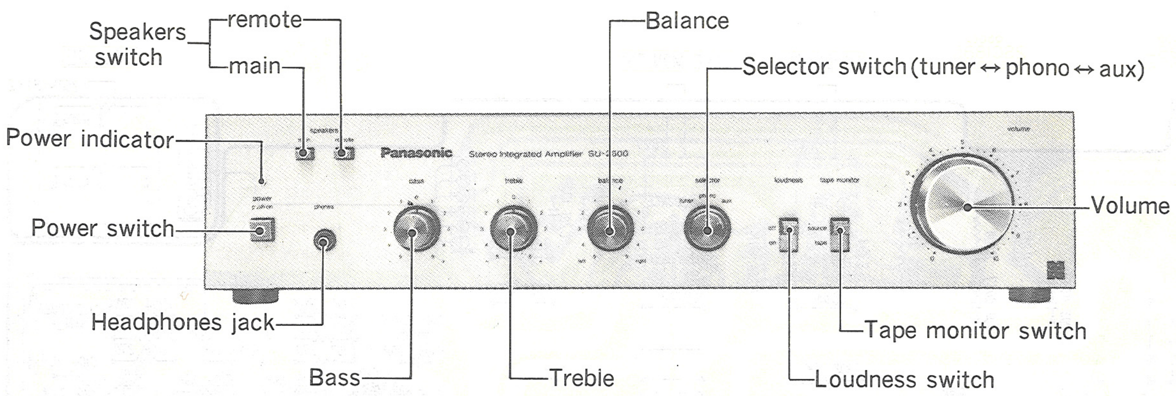
Puissance de sortie continue de 20 Hz ~ 20 kHz	
les deux canaux en circuit avec distorsion	2 x 25 W (8Ω)
Puissance de sortie continue de 40 Hz ~ 16 kHz	
les deux canaux en circuit avec distorsion	2 x 25 W (4Ω)
	2 x 25 W (8Ω)
Puissance de sortie continue à 1 kHz	
les deux canaux en circuit avec distorsion	2 x 27 W (4Ω)
	2 x 27 W (8Ω)
Largeur de bande de puissance	
pour l'ensemble des canaux excités, –3 dB	
	5 Hz ~ 50 kHz (4Ω)
	5 Hz ~ 60 kHz (8Ω)
Distorsion harmonique totale	
pour la puissance mesurée à 20 Hz ~ 20 kHz	0,08% (8Ω)
pour la puissance mesurée à 40 Hz ~ 16 kHz	
	0,15% (4Ω), 0,08% (8Ω)
pour la puissance mesurée à 1 kHz	
	0,15% (4Ω), 0,08% (8Ω)
pour la demi-puissance mesurée à 20 Hz ~ 20 kHz	
	0,03% (8Ω)
pour la demi-puissance mesurée à 1 kHz	0,03% (8Ω)
pour une puissance mesurée de –26 dB, 1 kHz	0,15% (4Ω)
pour une puissance mesurée de 50 mW, 1 kHz	0,2% (4Ω)
Distorsion d'intermodulation	
pour la puissance mesurée à 250 Hz: 8 kHz = 4:1, 4Ω	0,15%
pour la puissance mesurée à 60 Hz: 7 kHz = 4:1, 8Ω	0,08%
Tension résiduelle de bruit	0,6 mV
Facteur d'amortissement	15 (4Ω), 30 (8Ω)
Sensibilité & impédance d'entrée	
PHONO	2,5 mV/47 kΩ
TUNER, AUX	150 mV/27 kΩ
TAPE 1, PLAYBACK	180 mV/33 kΩ
Voltage d'entrée maximum (PHONO, 1 kHz, RMS)	100 mV

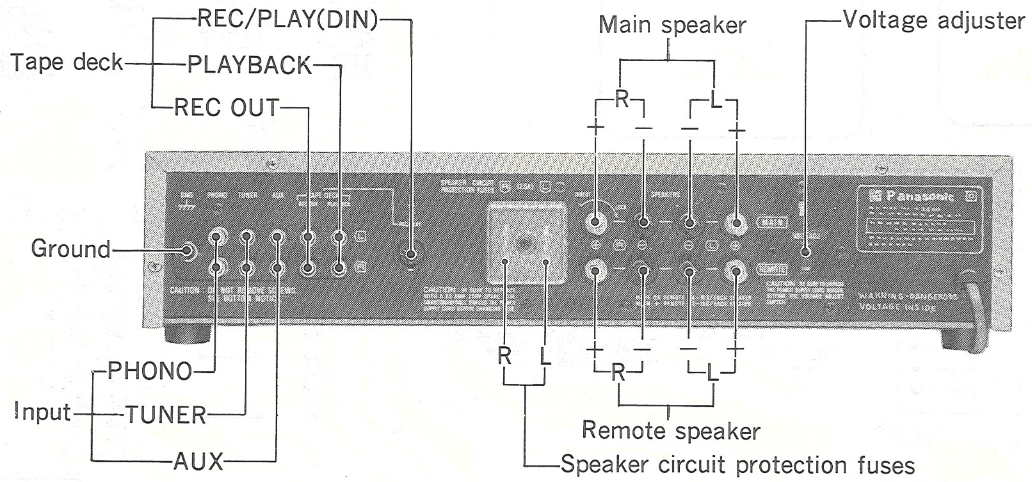
Repport signal/bruit		
pour la puissance nominale, 4Ω		
	PHONO	74 dB (IHF, A: 80 dB)
	TUNER, AUX, TAPE	83 dB (IHF, A: 97 dB)
pour une sortie de –26 dB, 4Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
pour une sortie de 50 mW, 4Ω	**PHONO**	62 dB
	TUNER, AUX, TAPE	62 dB
Réponse de fréquence		
PHONO		Courbe standard RIAA
		30 Hz ~ 15 kHz, ±1,0 dB
TUNER, AUX, TAPE		20 Hz ~ 20 kHz, ±0,8 dB
		10 Hz ~ 50 kHz, –1 dB
Réglage de la tonalité		
BASS (graves)		50 Hz, +10 dB ~ –10 dB
TREBLE (aigus)		20 kHz, +10 dB ~ –10 dB
Correction physiologique (volume à 30 dB)		50 Hz, +9 dB
Tension de sortie & impédance	**REC OUT**	150 mV
	REC/PLAY	30 mV/82 kΩ
Equilibrage de canaux (250 Hz ~ 6300 Hz), AUX		±1,0 dB
Séparation des canaux AUX 1 kHz		55 dB
Niveau du casque et impédance de sortie		330 mV/330Ω
Impédance de charge	**PRINCIPALE ou ELOIGNEE**	4 ~ 16Ω
	PRINCIPAE + ELOIGNEE	8 ~ 16Ω

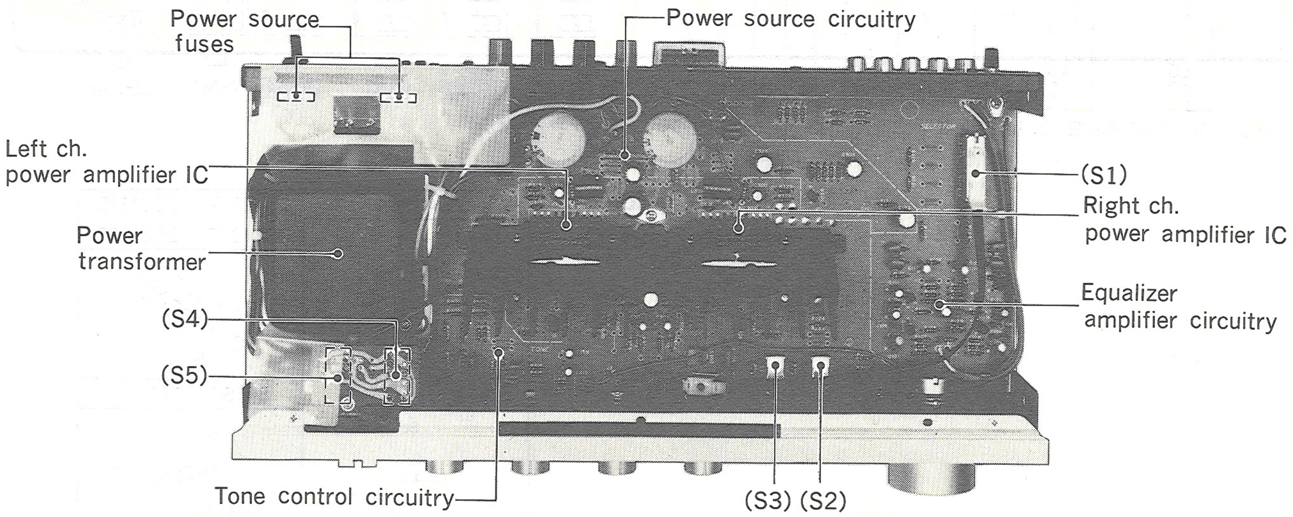
GENERALITES

Consommation	300 W
Alimentation (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (L x H x Pr)	430 x 97 x 240 mm
Poids	5,0 kg

■ LOCATION OF CONTROLS


Speakers switch
remote
main
Balance
Selector switch (tuner ↔ phono ↔ aux)
Power indicator
Power switch
Volume
Headphones jack
Tape monitor switch
Bass
Treble
Loudness switch


Tape deck
REC/PLAY(DIN)
PLAYBACK
REC OUT
Main speaker
R
L
Voltage adjuster
Ground
Input
PHONO
TUNER
AUX
R L
Remote speaker
Speaker circuit protection fuses


Power source fuses
Power source circuitry
Left ch. power amplifier IC
(S1)
Right ch. power amplifier IC
Power transformer
Equalizer amplifier circuitry
(S4)
(S5)
Tone control circuitry
(S3) (S2)

■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power IC from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

■ HOW TO REMOTE THE CABINET, BOTTOM BOARD AND FRONT PANEL

How to remove the cabinet

1. Remove the 4 setscrews (①~④ in Fig. 1) on the side and 4 setscrews (⑤~⑧ in Fig. 2) on the back of the cabinet.
2. Shift the cabinet backward and lift it upward. (Arrow Ⓐ in Fig. 1)

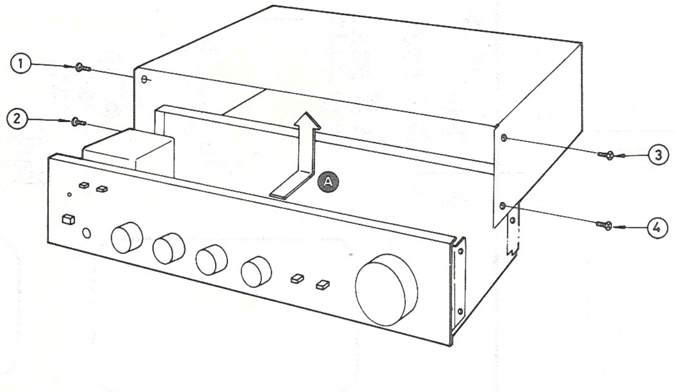


Fig. 1

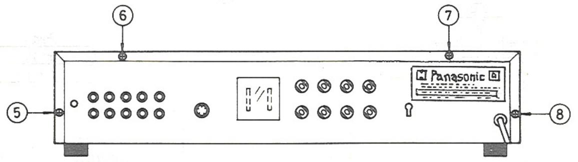


Fig. 2

How to detach the bottom board

1. Remove the 4 setscrews (⑩~⑬ in Fig. 3) used to secure bottom board and 4 setscrews (⑭ ~ ⑰ in Fig. 3) for the legs. Then the bottom board can be detached.

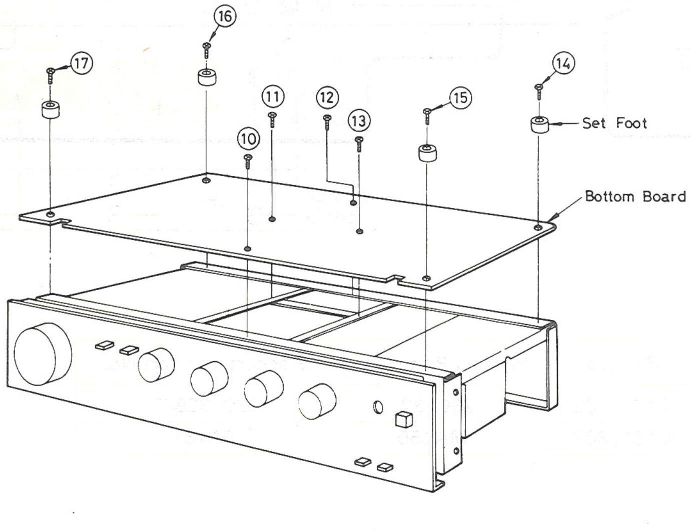
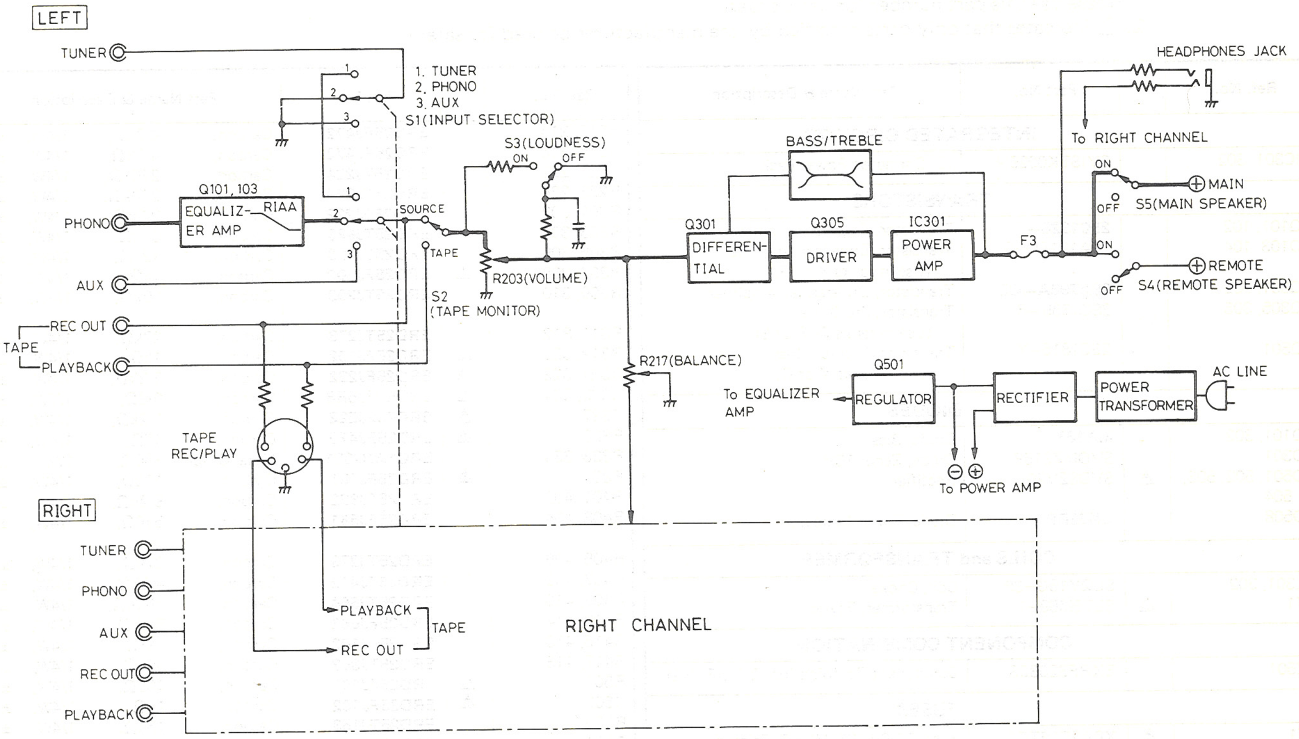

⑯
⑰
⑪
⑫
⑩
⑬
⑮
⑭
Set Foot
Bottom Board

Fig. 3

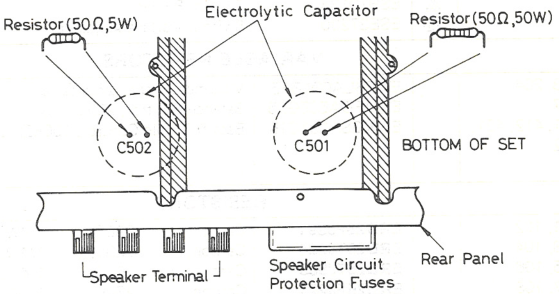
■ BLOCK DIAGRAM


LEFT
TUNER
1. TUNER
2. PHONO
3. AUX
S1(INPUT SELECTOR)
S3(LOUDNESS)
ON
OFF
Q101, 103
EQUALIZ-ER AMP
RIAA
PHONO
SOURCE
TAPE
R203(VOLUME)
S2
(TAPE MONITOR)
AUX
REC OUT
TAPE
PLAYBACK
TAPE REC/PLAY
BASS/TREBLE
Q301
DIFFEREN-TIAL
Q305
DRIVER
IC301
POWER AMP
F3
HEADPHONES JACK
To RIGHT CHANNEL
ON
OFF
MAIN
S5(MAIN SPEAKER)
ON
OFF
REMOTE
S4(REMOTE SPEAKER)
R217(BALANCE)
To EQUALIZER AMP
Q501
REGULATOR
RECTIFIER
POWER TRANSFORMER
AC LINE
To POWER AMP
RIGHT
TUNER
PHONO
AUX
REC OUT
PLAYBACK
PLAYBACK
REC OUT
TAPE
RIGHT CHANNEL

■ BEFORE STARTING THE REPAIRING

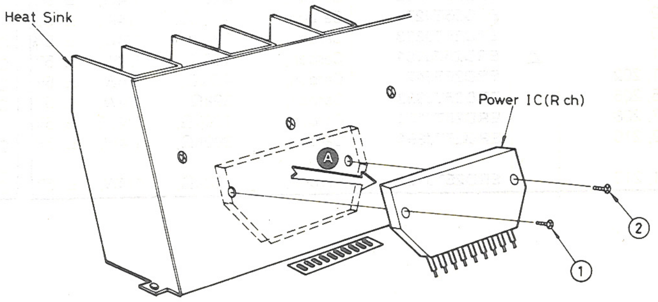
Before adjusting or repairing, be sure to short-circuit opposite poles of the 6800μF capacitors (C501, 502) with a resistor approximately of "50Ω, 5W" for discharging the charged voltage.

Short-circuiting with a screw driver and the like is not only dangerous, but may destroy transistors and diodes, and should therefore be avoided.


Resistor(50Ω,5W)
Electrolytic Capacitor
Resistor(50Ω,50W)
C502
C501
BOTTOM OF SET
Speaker Terminal
Speaker Circuit Protection Fuses
Rear Panel

■ HOW TO REMOVE THE POWER IC

1. Remove the solder of power IC.
2. Remove the 2 setscrews (①,② in figure. 5) used to secure the power IC on the heat sink, and then pull the power IC in the direction of arrow Ⓐ.
3. When mounting the power IC, apply silicone compound (or equivalent heat diffuser) to the back of power IC, and then follow the steps 1 ~ 2 reversely.


Heat Sink
Power IC(R ch)
Ⓐ
①
②

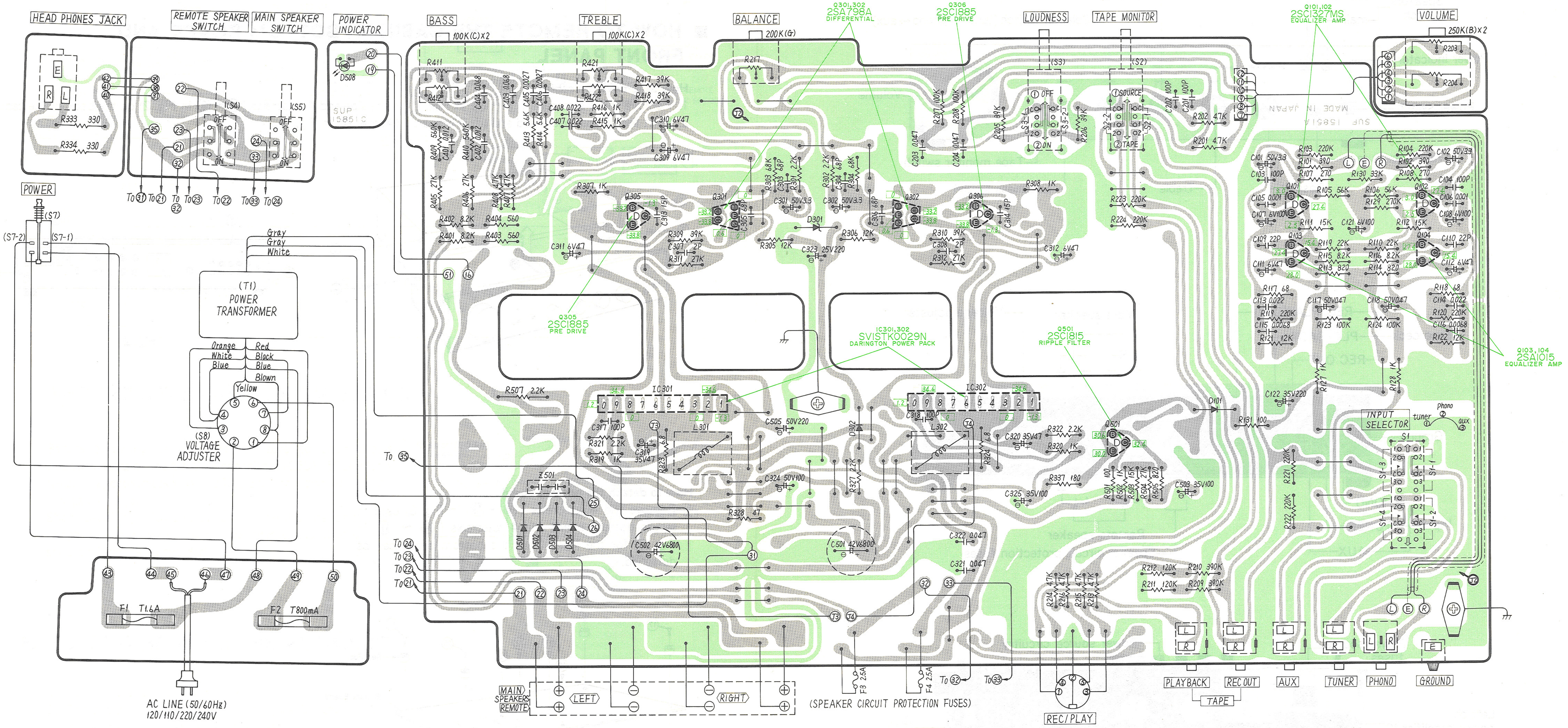
REPLACEMENT PARTS LIST (Electric Parts)

Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC301, 302		SVISTK0029N	IC, Darington Power Pack
TRANSISTORS			
Q101, 102		**2SC1328—T**	Transistor, Equalizer Amplifier
Q103, 104		2SA1015L—G	Transistor, Equalizer Amplifier (Use in ranks Y or G)
Q301, 302		**2SA798A—G2**	Transistor, Differential Amplifier
Q305, 306		2SC1885—R	Transistor, Pre Drive (Use in ranks Q, R or S)
Q501		2SC1815—Y	Transistor, Ripple Filter (Use in ranks Y or O)
DIODES			
D101, 302		**MA161**	Diode, Bias
D301		SVDMZ316B	Diode, Zener 16V
D501, 502, 503, 504	⚠	SVDS2V20	Rectifier
D508		**LN26RP**	Diode, Power Indicator
COILS and TRANSFORMER			
L301, 302		SLQY15G—3P	Coil, Choke
T1	⚠	SLT5M89—1	Transformer, Power
COMPONENT COMBINATION			
Z501		EXRFS203ZS	Component Combination, 0.01μF (X2)
FUSES			
F1	⚠	XBA2C16TR0	Fuse, T1.6A (250V) P.T. Primary
F2	⚠	XBA2C08TR0	Fuse, T800mA (250V) P.T. Primary
F3, 4	⚠	XBA2C25SS0	Fuse, 2.5A (250V) Speaker Circuit
SWITCHES			
S1		ESA2691	Switch, Input Selector
S2, 3		SSL121	Switch, Tape Monitor & Loudness
S4, 5		SSH263	Switch, Speakers Selector
S7	⚠	ESB70133	Switch, Power
S8	⚠	ESE37200	Switch, Voltage Adjuster
VARIABLE RESISTORS			
R203, 204		EWF6LA031BF5	Volume Control, 250kΩ (B)
R217		EVHFDA505G25	Balance Control, 200kΩ (G)
R411, 412, 421, 422		EWKGSA091C15	Bass & Treble Control, 100kΩ (C)
RESISTORS			
R101, 102		**ERD25FJ391**	Carbon, 390Ω, 1/4W, ± 5%
R103, 104		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R105, 106		**ERD25TJ563**	Carbon, 56kΩ, 1/4W, ± 5%
R107, 108		**ERD25FJ271**	Carbon, 270Ω, 1/4W, ± 5%
R109, 110		ERD25TSJ223	Carbon, 22kΩ, 1/4W, ± 5%
R111, 112		ERD25TSJ153	Carbon, 15kΩ, 1/4W, ± 5%
R113, 114		**ERD25FJ821**	Carbon, 820Ω, 1/4W, ± 5%
R115, 116		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R117, 118		**ERD25FJ680**	Carbon, 68Ω, 1/4W, ± 5%
R119, 120		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R121, 122		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R123, 124		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R127, 128		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R129		**ERD25TJ274**	Carbon, 270kΩ, 1/4W, ± 5%
R130		**ERD25TJ333**	Carbon, 33kΩ, 1/4W, ± 5%
R131	⚠	**ERD25FJ101**	Carbon, 100Ω, 1/4W, ± 5%
R201, 202		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R205, 206		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R207, 208		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R209, 210		**ERD25TJ394**	Carbon, 390kΩ, 1/4W, ± 5%
R211, 212		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ± 5%
R213, 214		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R215, 216		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R221, 222		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R223, 224		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R301, 302		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R303, 304		**ERD25TJ683**	Carbon, 68kΩ, 1/4W, ± 5%
R305, 306		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R307, 308	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R309, 310		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R311, 312		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R319, 320	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R321, 322	⚠	**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R323, 324	⚠	ERD50FJ6R8	Carbon, 6.8Ω, 1/2W, ± 5%
R327	⚠	**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R328	⚠	**ERD25FJ470**	Carbon, 47Ω, 1/4W, ± 5%
R333, 334		**ERG1ANJ331**	Metal Oxide, 330Ω, 1W, ± 5%
R337	⚠	**ERD25FJ181**	Carbon, 180Ω, 1/4W, ± 5%
R401, 402		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R403, 404		**ERD25FJ561**	Carbon, 560Ω, 1/4W, ± 5%
R405, 406		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R407, 408		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R409, 410		**ERD25TJ564**	Carbon, 560kΩ, 1/4W, ± 5%
R413, 414		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R415, 416		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R417, 418		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R501	⚠	**ERD25FJ101**	Carbon, 100Ω, 1/4W, ± 5%
R502	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R503		**ERD25TJ153**	Carbon, 15kΩ, 1/4W, ± 5%
R504		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R505		**ERD25FJ821**	Carbon, 820Ω, 1/4W, ± 5%
R507		**ERG1ANJ222**	Metal Oxide, 2.2kΩ, 1W, ± 5%
CAPACITORS			
C101, 102		**ECEA50M3R3R**	Electrolytic, 3.3μF, 50V
C103, 104		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C105, 106		ECKD1H102MD	Ceramic, 0.001μF, 50V, ±20%
C107, 108		**ECEA1AS101**	Electrolytic, 100μF, 10V
C109, 110		ECCD1H220K	Ceramic, 22pF, 50V, ±10%
C111, 112		**ECEA1AS470**	Electrolytic, 47μF, 10V
C113, 114		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C115, 116		ECQM1H682KZ	Polyester, 0.0068μF, 50V, ±10%
C117, 118		**ECEA50MR47R**	Electrolytic, 0.47μF, 50V
C121		**ECEA1AS101**	Electrolytic, 100μF, 10V
C122		**ECEA1VS221**	Electrolytic, 220μF, 35V
C201, 202		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C203, 204		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C301, 302		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C303, 304		ECCD1H680K	Ceramic, 68pF, 50V, ±10%
C305, 306		ECCD1H680K	Ceramic, 68pF, 50V, ±10%
C307, 308		ECCD1H020C	Ceramic, 2pF, 50V, ±0.25pF
C309, 310		**ECEA1AS470**	Electrolytic, 47μF, 10V
C311, 312		**ECEA1AS470**	Electrolytic, 47μF, 10V
C313, 314		ECCD2H150K	Ceramic, 15pF, 500V, ±10%
C317, 318		ECCD2H101K	Ceramic, 100pF, 500V, ±10%
C319, 320		**ECEA1HS470**	Electrolytic, 47μF, 50V
C321, 322		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C323		**ECEA1ES221**	Electrolytic, 220μF, 25V
C324		**ECEA1HS101**	Electrolytic, 100μF, 50V
C325		**ECEA1VS101**	Electrolytic, 100μF, 35V
C401, 402		ECQM1H123KZ	Polyester, 0.012μF, 50V, ±10%
C403, 404		ECQM1H683KZ	Polyester, 0.068μF, 50V, ±10%
C405, 406		ECQM1H272KZ	Polyester, 0.0027μF, 50V, ±10%
C407, 408		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C501, 502		ECET42R682S	Electrolytic, 6800μF, 42V
C503		**ECEA1VS101**	Electrolytic, 100μF, 35V
C505		**ECEA1HS221**	Electrolytic, 220μF, 50V

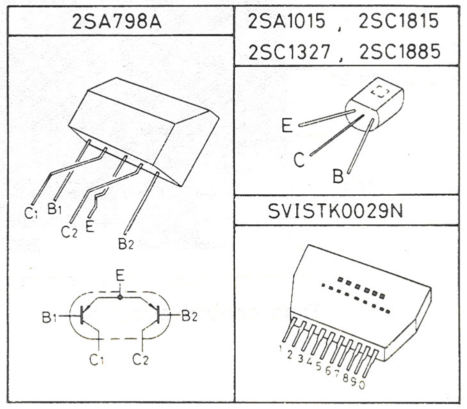
■ PRINTED CIRCUIT BOARD WIRING VIEW

🟩 Earth (Ground) Lines

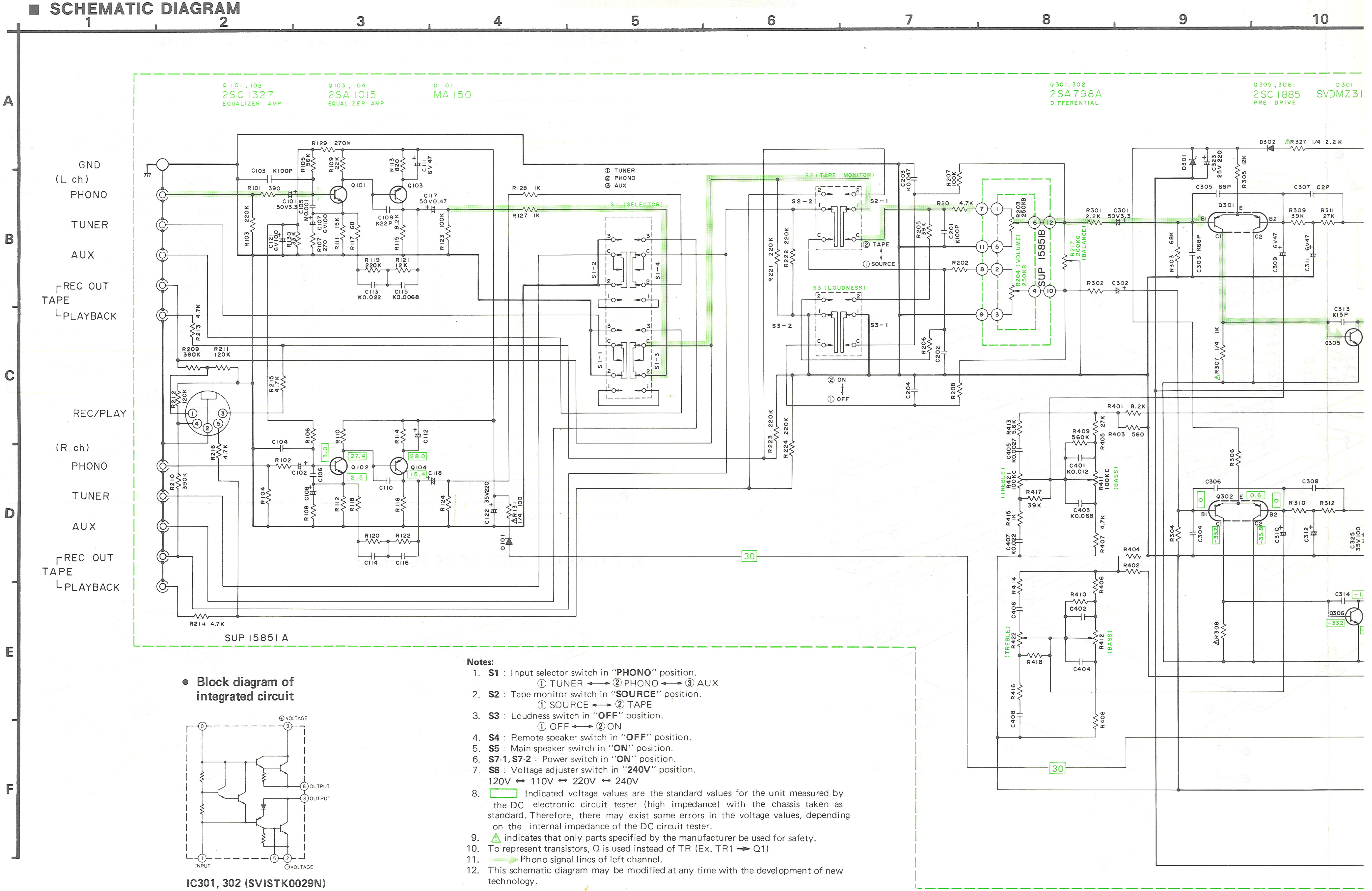

HEAD PHONES JACK
REMOTE SPEAKER SWITCH
MAIN SPEAKER SWITCH
POWER INDICATOR
BASS
100K(C)×2
TREBLE
100K(C)×2
BALANCE
200K(G)
Q301, 302 2SA798A DIFFERENTIAL
Q306 2SC1885 PRE DRIVE
LOUDNESS
TAPE MONITOR
Q101, 102 2SC1327MS EQUALIZER AMP
VOLUME
250K(B)×2
POWER
(S7)
(S7-2)
(S7-1)
Gray
Gray
White
(T1) POWER TRANSFORMER
Orange
White
Blue
Red
Black
Blue
Blown
Yellow
(S8) VOLTAGE ADJUSTER
Q305 2SC1885 PRE DRIVE
IC301, 302 SVISTK0029N DARINGTON POWER PACK
Q501 2SC1815 RIPPLE FILTER
Q103, 104 2SA1015 EQUALIZER AMP
IC301
IC302
INPUT SELECTOR
tuner
Phono
aux
F1 T1.6A
F2 T800mA
AC LINE (50/60Hz) 120/110/220/240V
MAIN SPEAKERS REMOTE
LEFT
RIGHT
(SPEAKER CIRCUIT PROTECTION FUSES)
REC/PLAY
PLAYBACK
REC OUT
TAPE
AUX
TUNER
PHONO
GROUND
MADE IN JAPAN
SUP 15851A

Ref. No.	Product Part No.	Standardized Part No.
Q101, 102	2SC1327	2SC1328-T
D101, 302	MA150	MA161

- **Terminal guide of transistor and IC**


2SA798A
C1
B1
C2
E
B2
E
B1
B2
C1
C2
2SA1015, 2SC1815
2SC1327, 2SC1885
E
C
B
SVISTK0029N
1 2 3 4 5 6 7 8 9 0

SCHEMATIC DIAGRAM

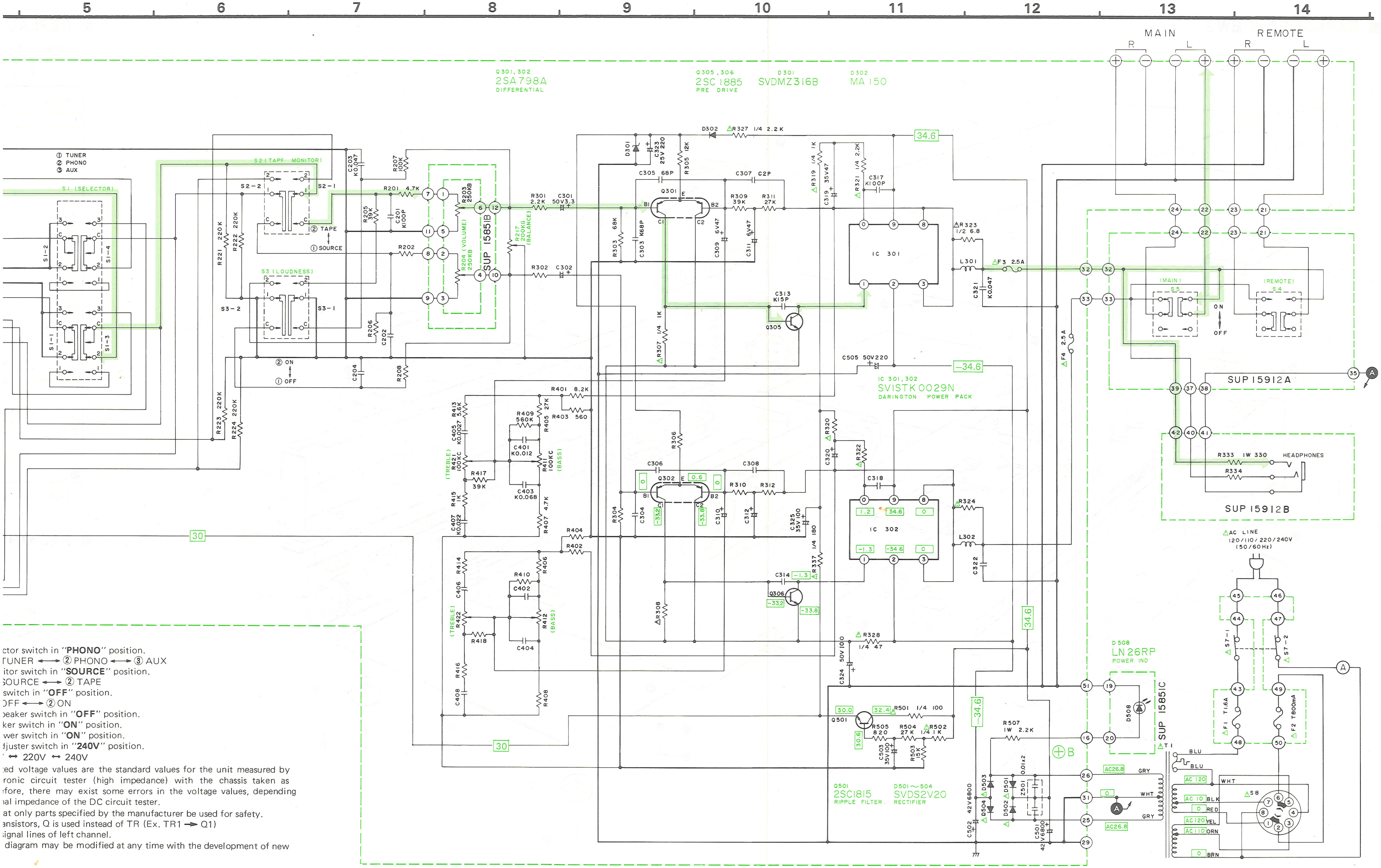

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
Q101, 102
2SC1327
EQUALIZER AMP
Q103, 104
2SA1015
EQUALIZER AMP
D101
MA150
Q301, 302
2SA798A
DIFFERENTIAL
Q305, 306
2SC1885
PRE DRIVE
D301
SVDMZ31
GND
(L ch)
PHONO
TUNER
AUX
REC OUT
TAPE
PLAYBACK
REC/PLAY
(R ch)
PHONO
TUNER
AUX
REC OUT
TAPE
PLAYBACK
① TUNER
② PHONO
③ AUX
S1 (SELECTOR)
S2 (TAPE MONITOR)
S3 (LOUDNESS)
② TAPE
① SOURCE
② ON
① OFF
R204 (VOLUME) 250KB
R217 200KC (BALANCE)
SUP 15851B
SUP 15851A
(TREBLE)
(BASS)
R129 270K
C103 K100P
R101 390
C101 50V3.3
R128 1K
R127 1K
C117 50V0.47
R201 4.7K
R301 2.2K
C301 50V3.3
R327 1/4 2.2K
C305 68P
C307 C2P
R309 39K
R311 27K
R401 8.2K
R403 560
R409 560K
C401 K0.012
R417 39K
C403 K0.068
C306
C308
R310
R312
C313 K15P
27.4
28.0
2.5
15.4
3.0
0.6
0
-33.2
-33.6
30
R214 4.7K
R209 390K
R211 120K
C113 K0.022
C115 K0.0068
R119 220K
R121 12K
C114
C116
R120
R122

- Block diagram of integrated circuit

⊕VOLTAGE
9
8 OUTPUT
3 OUTPUT
1 INPUT
5
2
⊖VOLTAGE
0

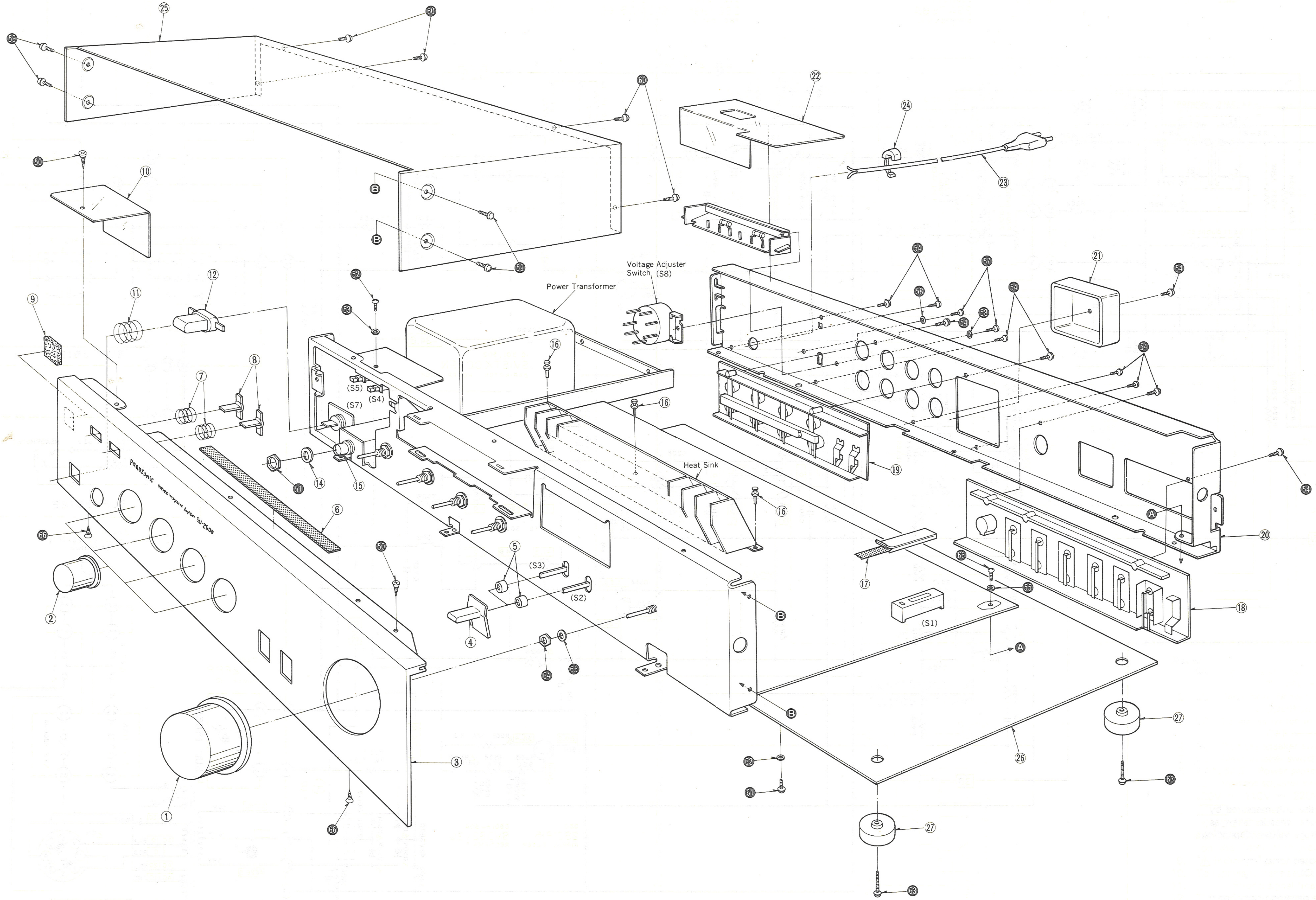
IC301, 302 (SVISTK0029N)
Power Amplifier

Notes:
1. **S1** : Input selector switch in "**PHONO**" position.
   ① TUNER ←→ ② PHONO ←→ ③ AUX
2. **S2** : Tape monitor switch in "**SOURCE**" position.
   ① SOURCE ←→ ② TAPE
3. **S3** : Loudness switch in "**OFF**" position.
   ① OFF ←→ ② ON
4. **S4** : Remote speaker switch in "**OFF**" position.
5. **S5** : Main speaker switch in "**ON**" position.
6. **S7-1, S7-2** : Power switch in "**ON**" position.
7. **S8** : Voltage adjuster switch in "**240V**" position.
   120V ↔ 110V ↔ 220V ↔ 240V
8. ▭ Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist errors in the voltage values, depending on the internal impedance of the DC circuit tester.
9. ⚠ indicates that only parts specified by the manufacturer be used for safety.
10. To represent transistors, Q is used instead of TR (Ex. TR1 → Q1)
11. ━━ Phono signal lines of left channel.
12. This schematic diagram may be modified at any time with the development of new technology.


5
6
7
8
9
10
11
12
13
14
MAIN
REMOTE
R
L
① TUNER
② PHONO
③ AUX
S1 (SELECTOR)
S2 (TAPE MONITOR)
S3 (LOUDNESS)
② TAPE
① SOURCE
② ON
① OFF
Q301, 302
2SA798A
DIFFERENTIAL
Q305, 306
2SC1885
PRE DRIVE
D301
SVDMZ316B
D302
MA150
R201 4.7K
R203 250KB
R204 (VOLUME) 250KB
R217 200KG (BALANCE)
SUP 1585IB
R301 2.2K
C301 50V3.3
R302
C302
Q301
Q302
Q305
Q306
R327 1/4 2.2K
34.6
-34.6
C305 68P
C307 C2P
R309 39K
R311 27K
C313 K15P
R307 1/4 1K
C317 K100P
R323 1/2 6.8
L301
F3 2.5A
C321 K0.047
IC 301
IC 302
F4 2.5A
C505 50V220
IC 301, 302
SVISTK0029N
DARINGTON POWER PACK
R401 8.2K
R403 560
R409 560K
R405 27K
C401 K0.012
C403 K0.068
R411 100KC (BASS)
R421 100KC (TREBLE)
R417 39K
R418
R412 (BASS)
R422 (TREBLE)
R404
R402
C306
C308
R310
R312
C318
R324
L302
C322
C314 -1.3
R337 1/4 180
C325 35V100
R328 1/4 47
C324 50V100
0.6
1.2
-1.3
-33.2
-33.8
30
30.0
30.6
32.4
Q501
R501 1/4 100
R505 820
R504 27K
R502 1/4 1K
C503 35V100
R503 15K
Q501
2SC1815
RIPPLE FILTER
D501～504
SVDS2V20
RECTIFIER
C502 42V6800
C501 42V6800
Z501
0.01x2
R507 1W 2.2K
⊕B
D508
LN26RP
POWER IND
SUP 1585IC
T1
AC26.8
AC120
AC110
AC10
GRY
WHT
BLU
BLK
RED
YEL
ORN
BRN
S8
S5 (MAIN)
S4 (REMOTE)
ON
OFF
SUP 15912A
SUP 15912B
R333 1W 330
R334
HEADPHONES
AC LINE
120/110/220/240V
(50/60Hz)
S7-1
S7-2
F1 T1.6A
F2 T800mA
A

ctor switch in "**PHONO**" position.
TUNER ←→ ② PHONO ←→ ③ AUX
itor switch in "**SOURCE**" position.
SOURCE ←→ ② TAPE
switch in "**OFF**" position.
OFF ←→ ② ON
peaker switch in "**OFF**" position.
ker switch in "**ON**" position.
wer switch in "**ON**" position.
djuster switch in "**240V**" position.
↔ 220V ↔ 240V
ted voltage values are the standard values for the unit measured by
ronic circuit tester (high impedance) with the chassis taken as
efore, there may exist some errors in the voltage values, depending
nal impedance of the DC circuit tester.
at only parts specified by the manufacturer be used for safety.
ansistors, Q is used instead of TR (Ex. TR1 → Q1)
signal lines of left channel.
diagram may be modified at any time with the development of new

■ EXPLODED VIEWS


㉕
(60)
(59)
㊿
⑩
㉒
㉔
㉓
Ⓑ
Ⓑ
(59)
(60)
Voltage Adjuster Switch (S8)
Power Transformer
⑫
⑪
⑨
(52)
(53)
(S5)
(S4)
(S7)
⑯
㉑
(54)
(57)
(58)
⑧
⑦
⑭
⑮
(51)
⑥
Heat Sink
⑲
⑳
Ⓐ
⑰
⑱
(66)
(55)
⑤
(S3)
(S2)
(S1)
④
②
㊿
(64)
(65)
Ⓐ
Ⓑ
㉗
㉖
(62)
(61)
(63)
③
①
Panasonic
SU-2600

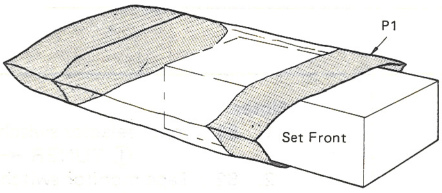
■ REPLACEMENT PARTS LIST (Cabinet and Chassis Parts)

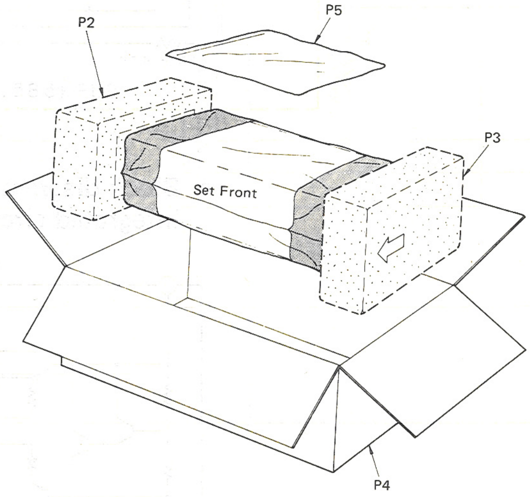
Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for sefety.

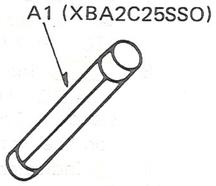
Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SBN859–1	Knob, Volume Control
2		SBN861	Knob, Bass, Treble, Balance & Input Selector
3		SGWU2600E	Panel, Front Ass'y
4		SBD19–3	Knob, Loudness, Tape Monitor Switch
5		SNW421–1	Spacer, Loudness, Tape Monitor Switch
6		SHS6101–1	Fiber, Front Panel
7		SUS123–1	Spring, Push Switch
8		SBC211–1	Button, Speaker Switch
9		SHR9491	Spacer, LED Power Indicator
10		SMX267	Cover, Power Switch
11		SUS145	Spring, Power Switch
12		SBC209–2	Button, Power Switch
14		SNE59–1	Washer, Headphones Jack M'tg
15		XCJ6P21B–A	Jack, Headphones
16		SHR401–1	Latch, Heat Sink M'tg
17		ESA338	Remote Switch, Input Selector
18		SJF3025–3	Terminal, Input
19		SJF8013–1	Terminal, Speakers
20		SGP1750–1E	Rear Panel
21		SUV337	Cover, Speaker Terminal
22		SMX269–1	Cover, Power Fuses
23	⚠	RJA23ZC	AC Cord, with Plug (Except product for [XE])
23 [XE] only	⚠	RJA45ZC	AC Cord
24		SFSR4N4	Bushing, AC Cord (Except product for [XE])
24 [XE] only		SFSR5N4	Bushing, AC Cord
25		SKA10679K	Cabinet
26		SYU187–2	Bottom Board
27		SKL225	Foot, Set
SCREWS and WASHERS			
㊿		**XTS3+8B**	Screw, Front Panel M'tg
(51)		**XNS12**	Nut, Headphones Jack M'tg
(52)		**XTN3+8B**	Screw, Speaker Selector Switch Printed Circuit Board M'tg
(53)		**XWG3B**	Washer
(54)		**XTB3+8BFZ**	Screw, Terminals, Fuse Cover, Power Fuses Printed Circuit Board and Rear Panel M'tg
(55)		**XWC3B**	Washer
(57)		**XSN3+6BVS**	Screw, Voltage Adjuster Switch M'tg
(58)		**XWA3BFZ**	Washer
(59)		**XTB4+8BFZ**	Screw, Cabinet M'tg
(60)		**XTB3+8BFZ**	Screw, Cabinet M'tg
(61)		**XTN3+8B**	Screw, Bottom Board M'tg
(62)		**XWG3**	Washer
(63)		**XTB3+12BFN**	Screw, Set Feet M'tg
(64)		**XNS8**	Nut, Volume, Selector, Balance, Treble & Bass M'tg
(65)		**XWV8**	Washer
(66)		**XTB3+8BFN**	Screw, Front Panel and P.C.B. M'tg
ACCESSORY			
A1	⚠	XBA2C25SS0	Fuse, 2.5A (250V) Speaker Circuit
PACKING PARTS			
P1		SPP501	Polyethylene Bag
P2		SPS2265	Pad, Left Side
P3		SPS2267	Pad, Right Side
P4		SPG2209	Carton Box
P5		SQF10261	Instructions Book, Printed Matter (Except product for [XE])
P5 [XE] only		SQF10259	Instructions Book, Printed Matter

Note : (XE) is available in United Kingdom.

■ PACKINGS AND ACCESSORIES







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